D-Link®

—— DI-724P

Wireless Cable/DSL Router

With 802.11g Wireless LAN, 4-Port Switch & Parallel Print Server

The DI-724P is a versatile router that combines wireless broadband Internet sharing with robust firewall security, print server and built-in 4-port switch for ready printer and workstation connection. Designed for home and office use, this router provides both performance and advanced network functions, including high-speed wireless LAN connection, Internet protection and policy-based content filtering.

Simplified, Cost-saving Broadband Internet Connection
The DI-724P provides users with easy and cost-saving access to the broadband Internet through a DSL or cable modem without the need for wiring. To let everybody logon, this device automatically creates and assigns an IP number for each user, simplifying every one's logon operation.

High Wireless Speeds
At up to 54Mbps, this router provides wireless LAN users a very high data transfer rate. Real wireless LAN throughput is about 8 times faster than that of 802.11b devices. In addition, adoption of the 2.4GHz frequency, now available for public use in most countries, makes this router an ideal solution for bandwidth intensive WLAN applications.

Compatible With 802.11b and 802.11b+
In addition to providing 54Mbps rate when operating with wireless users using D-Link AirPlusXtremeG+ equipment, this router is also compatible with existing 802.11b and 802.11b+ wireless devices. This means that you may sacrifice some of the router's high speed when you mix with your existing 802.11b and 802.11b+ devices, but you will not lose any ability to communicate.

Integrated Fast Ethernet Switch & Print Server
An integrated 4-port switch with auto MDI/MDIX support provides plug-and-play connection to 4 computers. In addition, a parallel print server port allows you to share a parallel printer among your users.

Built-in Firewall & Access Security
To prevent unwanted Internet intruders from accessing your private network, this router provides a feature-rich firewall and access security. Filters can be set based on MAC address, IP address, URL and/or domain name. Additional advanced features include pass-through of multiple concurrent IPSec and PPTP VPN sessions for telecommuters or for anyone who needs to transmit sensitive information securely.

Easy Setup
A simple yet intelligent, web-based setup wizard allows you to quickly set up the router for secure computer connection to share high-speed Internet connection, files, resources, games, or just to communicate.

Key Features

- *54Mbps high-speed wireless broadband Internet access *
  10/100BASE-TX port for DSL/cable modem connection*
- *WAN port supports PPPoE for DSL dial-up mode to save ISP connection fee*
- *Built-in 802.11g wireless LAN with real throughput 8 times faster than 802.11b devices ***
- *WLAN supports Dynamic Channel Selection (auto-selection of least utilized channel of operation)*
- *4 built-in 10/100BASE-TX switch ports with auto MDI/MDIX support*
- *Built-in parallel printer port/print server supporting Windows, MacOS, Linux*
- *Multi-sessions with VPN pass-through*

- *User access control: 802.1x authentication, Access Control List, scheduling and user level control*
- *Parental control: URL blocking, domain filtering*
- *Firewall: Stateful Packet Inspection (SPI), Ping of Death prevention, Intrusion detection, security event log*
- *DMZ and Virtual Server Mapping support*
- *Network Time Protocol & UPnP support*
- *Web-based configuration, Windows-based utility & Setup*
- *Wizard for quick installation*

* When used with other 802.11g devices
** When used with other AirPlusXtremeG+ devices

DI-724P

Technical Specifications

Hardware

WAN Port
- 10/100BASE-TX
- Supports "Always-on" (bridged) and PPPoE for DSL dial-up

LAN Ports
4 10/100BASE-TX ports with auto MDI/MDIX

Printer Port
DB-25 parallel port

LED indicators
- Power
- Status
- WAN
- WLAN
- Local (Ethernet) Network (4 LEDs)

Software

NAT
- IP Network Address Translation
- Traditional IP Network Translation
- Protocol Complications with IP Network Address Translation
- DHCP server and client support
- Subnet mask class A, B, and C
- DHCP server class C (1 to 254 clients)

NAT Application Level Gateway
- H.323 Protocol Suite
- File Transfer Protocol (FTP)
- Session Initiation Protocol (SIP)
- Session Description Protocol (SDP)
- Real-Time Transport Protocol (RTP)
- Internet Relay Chat (IRC)
- Multiple Gaming Protocol

Virtual DMZ Host
1 entry

Virtual Server Mapping
13 entries

VPN Support (Multi-Session)
- PPTP pass-through
- L2TP pass-through
- IPSec pass-through

Routing (Protocols & Functions)
- Static Route
- Dynamic Route
- RIP-1, RIP-2
- IP Alias
- IP Multicast
- UDP, TCP, ICMP, ARP
- IP spoofing

Firewall Functions
- Stateful Packet Inspection (SPI)
- Packet Filtering
- Ping of Death prevention
- IP spoofing
- Intrusion Detection
- Security event log

Firewall (Stateful Packet Inspection)
- IP Address and Port Number
- Packet Count and Byte Count
- Sequence and Acknowledgement Number
- Timestamps
- Payload Modification History
- Dynamic Association

Firewall (Comprehensive Logging)
- Filtering activity: logs rejected internal and external connection requests
- Session tracking activity: logs all session creation and termination information
- Intrusion detection activity: log information about outside attack

Access Control
- User access control: MAC filtering, Access Control List (ACL), 802.1x authentication, WPA (WLAN)
- WAN access control: domain filtering, URL filtering, WAN connection scheduling

Print Server OS Support
- Windows 95, 98, ME, 2000, XP, NT
- MacOS
- Linux

Configuration and Management
- Web-based Utilities
- PC Utility supporting Windows 98SE, ME, 2000, XP
- UPnP support
- Network Time Protocol (NTP) support
- Status log

Software Upgrade
TFTP

Built-in Wireless LAN

Wireless LAN Standards
- 802.11b
- 902.11b+
- 802.11g

Data Rates
- 802.11g: up to 54Mbps (6/9/12/18/24/36/48/54Mbps)
- 802.11b+: up to 22Mbps
- 802.11b: up to 11Mbps (1/2/5.5/11Mbps)
- Auto-switch to select 802.11g or 802.11b mode
- Data rate auto fall-back under noisy environment or longer range distance

Transmission Technology
DSSS

RF Frequency Range
2.4 to 2.4835GHz

Frequency Stability
Within +/- 25ppm

Operating Channels
- 1 to 11 channels (North America)
- 1 to 13 channels (General Europe)

Data Modulation Type
DBPSK, DQPSK, CCK, PBCC and OFDM (BPSK/QPSK/16-QAM/ 64-QAM)

Antennas
- 1 detachable external dipole antenna, 2dBi Gain (reverse SMA connector)
- 1 internal antenna, 2dBi Gain

Transmit Output Power
- 802.11g: 14dBm (typical)
- 802.11b: 16dBm (typical)

Receive Sensitivity (for 802.11b)
(typically @PER < 8% packet size 1024 @ 25 $^{\circ}$C +/- 5 $^{\circ}$C)
- 22Mbps (PBCC): -80dBm
- 11Mbps (PBCC): -85dBm
- 11Mbps (CCK): -84 dBm
- 5.5Mbps (CCK): -87 dBm
- 2Mbps (QPSK): -90 dBm
- 1Mbps (BPSK): -92 dBm

Receive Sensitivity (for 802.11g)
(typically @PER < 8% packet size 1024 @ 25 $^{\circ}$C +/- 5 $^{\circ}$C)
- 54Mbps (OFDM): -71 dBm
- 48Mbps (OFDM): -72 dBm
- 36Mbps (OFDM): -77 dBm
- 24Mbps (OFDM): -80 dBm
- 12Mbps (OFDM): -86 dBm
- 9Mbps (OFDM): -87 dBm
- 6Mbps (OFDM): -89 dBm

Operating Range *
- Indoors: 100 meters (328 feet)
- Outdoors: 400 meters (1,312 feet)

* Environmental factors may adversely affect range

Wireless Data Security
- WEP 64/128/256-bit data encryption (user-selectable)
- 802.1x user authentication (MD5 and TLS) (in Windows XP only)
- Wi-Fi Protected Access
- SSID broadcast enable/disable

Built-in Fast Ethernet Switch
Standards
- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- ANSI/IEEE 802.3 NWay auto-negotiation

Supported Functions
- Full/half duplex (per port)
- MDI/MDIX auto uplink (per port)

Transmission Method
Store-and-forward

MAC Address Learning
Automatic update

Physical & Environmental
DC input
- 5V/2A
- Through external power adapter

Dimensions
192 x 118 x 31 mm (device only)

Weight
300 grams (device only)

Operation Temperature
0 $^{\circ}$ to 55 $^{\circ}$C

Storage Temperature
-20° to 70 $^{\circ}$C

Humidity
5% to 95% non-condensing

Emission (EMI) Certifications
- FCC Part 15 Class B, Sec. 15.247, 15.109
- ETS 300 328, ETS 301 489-1&17, CE mark

Wireless LAN Compatibility
Wi-Fi Compliant

Box Includes
- DI-724P router
- External power adapter
- Ethernet Cable
- Quick Installation Guide
- Manual on CD
- 4 rubber feet
- 1 set of screws

Ordering Information

DI-724P	Wireless Router With Built-in 4-Port Switch and Parallel Printer Server

Please specify your order as follows:

DI-724P/ANA	US standard power adapter, North America frequency
DI-724P/ANA	US standard power adapter, EU frequency
DI-724P/BEU	UK standard power adapter, EU frequency
DI-724P/EEU	EU standard power adapter, EU frequency
DI-724P/NEU	Australia standard power adapter, EU frequency
DI-724P/CN	For China
TDI-724P	For Taiwan
BDI-724P	For USA

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U.S.A	TEL: 1-949-788-0805	FAX: 1-949-753-7033
Canada	TEL: 1-905-8295033	FAX: 1-905-8295095
Europe	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300
France	TEL: 33-1-30238688	FAX: 33-1-30238689
Benelux	TEL: 31-10-282-1445	FAX: 31-10-282-1331
Italy	TEL: 39-2-2900-0676	FAX: 39-2-2900-1723
Iberia	TEL: 34-93-4090770	FAX: 34-93-4910795
Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901
Norway	TEL: 47-22-309075	FAX: 47-22-309085
Denmark	TEL: 45-43-969040	FAX: 45-43-424347
Finland	TEL: 358-9-2707-5080	FAX: 358-9-2707-5081
Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322
Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
Japan	TEL: 81-3-5434-9678	FAX: 81-3-5434-9868
China	TEL: 86-10-8518-2533	FAX: 86-10-8518-2250
India	TEL: 91-22-652-6696	FAX: 91-22-652-8914
Middle East	TEL: 9714-8834234	FAX: 9714-8834394
Turkey	TEL: 90-212-335-2553	FAX:90-212-335-2500
Chile	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Brasil	TEL: 55-11-3094-2910	FAX: 55-11-3094-2921
South Africa	TEL: 27(0)1266-52165	FAX: 27(0)1266-52186
Russia	TEL: 7-095-737-3389	FAX: 7-095-737-3390
Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
D-Link Corp.	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299

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